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L1	1	("20030229646").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/19 13:57
L2	450	gui with builder	US-PGPUB; USPAT	OR	OFF	2007/06/19 14:10
L3	8	l2 and mvc and layout	US-PGPUB; USPAT	OR	OFF	2007/06/19 14:03
L4	1	l2 and mvc and (build with view)	US-PGPUB; USPAT	OR	OFF	2007/06/19 14:03
L5	350	l2 and @ad<"20030930"	US-PGPUB; USPAT	OR	OFF	2007/06/19 14:11
L6	25	l5 and mvc	US-PGPUB; USPAT	OR	OFF	2007/06/19 14:11
S1	1	("20050071749").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/19 13:40
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S3	5384	(707/100).ccls.	US-PGPUB; USPAT	OR	OFF	2007/06/19 11:13
S4	48	("5873093" "20050071749" "5555369" "4362198" "5442744" "6430348" "20060274086" "20060277460" "4261193" "4476615" "4519859" "4541126" "4763172" "4820255" "4839723" "4845643" "4895339" "4953859" "5378513" "5416989" "5943037" "5953017" "5959667" "5995901" "6223610" "6223610" "6312364" "6322950" "6379155" "6390819" "6473084" "5907328" "5958012" "5530854" "5678015" "5761429" "5909372" "5917498" "5943668" "5982845" "5995916" "6049622" "6052110" "6100885" "6122641" "6122636" "6222549" "6222549" "6232968" "6256648" ).pn.	US-PGPUB; USPAT	OR	OFF	2007/06/19 11:08
S5	2	("20040046789" "20030225829").pn.	US-PGPUB; USPAT	OR	OFF	2007/06/19 11:14


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P Libbrecht, C Ullrich, S Winterstein - Proceedings of Berliner XML Tage, 2003 - ags.uni-sb.de

... 1 is a minimalist **MVC** framework for web publishing using Java and J2EE, focusing solely on **MVC** logic. ... XSLT stylesheets are not dependent of the **view layout**. ...

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[View coordination architecture for information visualisation - all 5 versions »](#)

T Pattison, M Phillips - Proc: Australian Symposium on Information Visualisation, ( ..., 2001 - crpit.com

... corre- sponding to the same or related data elements, or the **layout** of collections ...

The benefits of the Model-View-Controller (**MVC**) software pattern ...

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[Towards a Generic and Adaptable J2EE-based Framework for Engineering Personalizable "My" Portals - all 2 versions »](#)

F Bellas, D Fernández, I Toral, A Muiño - Proceedings of the IADIS International Conference "WWW/ ..., 2003 - tic.udc.es

... structured according to the Model-View-Controller (**MVC**) architectural pattern ... eg user registration information, page **layout**, service personalization ...

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S Haruna, N Sanada, H Kinoh, K Sumiya, K Taki - ... Engineering, 2000. Proceedings. International Symposium on, 2000 - ieeeexplore.ieee.org

... AV applications, the correspondence between the elements of the **MVC** model and ... **layout**

management tool is a tool which organizes the **layout** of **View** objects on ...

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BMA Bower - Tutorial Paper for ESUG 2000, 2000 - object-arts.com

... of the most obvious benefits over **MVC** where the ... only has an indirect link to its associated **view**. ... The window **layouts** for most applications are created using a ...

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L Maks, A Koratkar, U Kerbel, V Pell - Proceedings of SPIE, 2002 - isd.gsfc.nasa.gov

... It provides a visual **layout** of the sky with the targets of ... of VOLT was originally developed using a Model-View-Controller (**MVC**) architecture, which ...

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KB Zhang, K Zhang, MA Orgun - Proceedings of the Pan-Sydney area workshop on visual ... , 2001 - crpit.com  
... in the context of RGGs in Section 3. Section 4 demonstrates our **layout** approach by going ... 2.2 Basic Idea VisPro uses Model, **View** and Controller (**MVC**) as its ...  
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Struts, an open-source **MVC** implementation Manage complexity in large Web sites with this servlets ... - all 2 versions »  
M Davis - Consultant, 2001 - diplom.blindenbacher.ch  
... designer (or HTML developer) must understand colors, the customer, product flow, page **layout**, browser compatibility ... Model-View-Controller (**MVC**) is a ...  
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Jetspeed Evaluation - all 7 versions »  
I Kelley, J Novotny, M Russell, O Wehrens - Maio de, 2002 - sf.gds.tuwien.ac.at  
... Customizer for selecting portlets and defining **layouts** for individual pages ... 3 Turbine Turbine provides a model-view-controller (**MVC**) framework for ...  
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A GUI software development system for digital AV applications  
S Haruna, N Sanada, H Kinoh, K Sumiya, K Taki - Systems and Computers in Japan, 2003 - doi.wiley.com  
... In the **MVC** model, the ... The focus management tool generates the Navigator object corresponding to the **View** object created by the **layout** management tool ...  
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ACM International Conference Proceeding Series; Vol. 16 [archive](#)
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 2001, Sydney, Australia

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## A GUI software design model and its runtime architecture applications

[Haruna, S.](#) [Sanada, N.](#) [Kinoh, H.](#) [Sumiya, K.](#) [Taki, K.](#)  
Matsushita Electr. Ind. Co. Ltd., Osaka;

This paper appears in: [Multimedia Software Engineering, 2000. Proceedings. International Conference on](#)

Publication Date: 2000

On page(s): 347-351

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Location: Taipei, Taiwan

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References Cited: 8

INSPEC Accession Number: 6806585

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### Abstract

In the field of digital AV equipment, the size of embedded software for the implementation interface (GUI) has increased. Also, as a remote controller is used as an input device, a computer using a mouse is required. We propose an example of applying the MVC design intended for remote controller operation, an efficient runtime architecture in line with development tools. We also evaluated the improvement of software productivity when model and its runtime architecture

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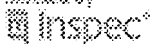
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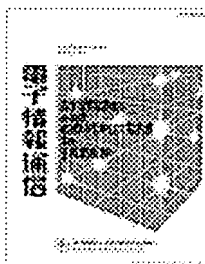
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**A GUI software development system for digital AV applications**Shuusuke Haruna<sup>1</sup>, Norio Sanada<sup>2</sup>, Hisayuki Kinoh<sup>2</sup>, Kazutoshi Sumiya<sup>3</sup>, Kazuo Taki<sup>4</sup><sup>1</sup>Department of Information and Media Science, Graduate School of Science and Technology, Kobe University, Kobe, 657-8501 Japan<sup>2</sup>Core Software Development Center, Matsushita Electric Industrial Co., Ltd., Kadoma, 571-8501 Japan<sup>3</sup>Research Center for Urban Safety and Security, Kobe University, Kobe, 657-8501 Japan<sup>4</sup>Department of Computer and Systems Engineering, Faculty of Engineering, Kobe University, Kobe, 657-8501 Japan**Keywords**

software development environment • MVC model • graphical user interface (GUI) • digital AV machine

**Abstract**

The scale of software on digital AV appliances that handle large-volume multichannel digital data has been increased by the GUIs (graphical user interfaces) loaded on them in recent years. In addition, the GUIs of AV appliances use remote controls having cursor keys. Focus management must be performed by these to point to the object of operation, in contrast to the mouse, which is capable of pointing on the entire screen. Since focus management changes with changes in the specifications of GUIs, such as screen layouts and the like, software may not be reusable. In this paper, a development system that attempts to improve the productivity of GUI software requiring focus management is discussed from the points of view of (1) a software design model based on an object-oriented MVC model, (2) an execution model with good efficiency corresponding to the design model, (3) development tools performing synthesis of GUI software and automatic generation of focus management procedures, and (4) applications and evaluations of the system. In an example of the application of the system, software productivity with a GUI specification change was improved by a factor of three. © 2003 Wiley Periodicals, Inc. Syst Comp Jpn, 34(7): 99-107, 2003; Published online in Wiley InterScience ([www.interscience.wiley.com](http://www.interscience.wiley.com)). DOI 10.1002/scj.10018

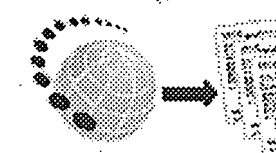
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### 1 [Usability evaluation: Touchstone: exploratory design of experiments](#)

Wendy E. Mackay, Caroline Appert, Michel Beaudouin-Lafon, Olivier Chapuis, Yangzhou Du, Jean-Daniel Fekete, Yves Guiard

 April 2007 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07**

Publisher: ACM Press

 Full text available: pdf(985.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Touchstone is an open-source experiment design platform designed to help establish a solid research foundation for HCI in the area of novel interaction techniques. Touchstone includes a design platform for exploring alternative designs of controlled laboratory experiments, a run platform for running subjects and a limited analysis platform for advice and access to on-line statistics packages. Designed for HCI researchers and their students, Touchstone facilitates the process of creating new e ...

**Keywords:** benchmarking, experimental design, interaction techniques, touchstone

### 2 [Semantic pointing: improving target acquisition with control-display ratio adaptation](#)

Renaud Blanch, Yves Guiard, Michel Beaudouin-Lafon

 April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '04**

Publisher: ACM Press

 Full text available: pdf(543.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce semantic pointing, a novel interaction technique that improves target acquisition in graphical user interfaces (GUIs). Semantic pointing uses two independent sizes for each potential target presented to the user: one size in motor space adapted to its importance for the manipulation, and one size in visual space adapted to the amount of information it conveys. This decoupling between visual and motor size is achieved by changing the control-to-display ratio according to cursor distance ...

**Keywords:** Fitts' law, control-display ratio, graphical user interface, pointing, semantic pointing

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